March-19-13 1	10:53:27 AM												
Item ID: Revision ID:	646.4001			Accept		*N900	<b>1040</b>	1100	<b>)</b> * :	Setup St	art 🗶	VS1*	
Item Name:	AS350 Cable	Cutter								St	op <b>*</b>	152*	
Start Date: Required Date	3/19/13 :: 4/02/13	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*			Cust Item Customer					•	u. ,,	
Reference:			1 1			Customer	•			ż		·	
Approvals:		an: MLJ	· ·	-			 Date:		I		art *	VR1*	
	QC:		Date:	SPC (Y	Y/ <b>N):</b>		Date:				*	<b>VR2</b> *	
Sequence ID/ Work Center I	ID	Operation Description		Set Run	Up/ Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Numb		
Draw Nbr	Rev	vision Nbr										· · · · · · · · · · · · · · · · · · ·	
646.4000	A				0.0							1	
*100 *100* DC Document Control		DOCUMENT CONTR  Memo Photocopy	OL bluefile & type labels p	0.00 0.00 er PPP 646 4001	1341	6					A		
2004111011		Тююсору	orderne de type labers p	CITIT 040.4001									a.
110		Pick Kit		0.00								13-416 13-03	1
*110* Packaging Packaging		<b>Mem</b> o		0.00								13-03	-32
120 * <b>120</b> *		QC4- 100% Inspect kits	s for completeness	0.00	27 27				1				
QC Quality Control		Memo		0.00	1341	م							

											DQA:	Date	e: •
NCR:	Yes	/ No				WORK ORDER NON-O	100	NFORI	MANCE / UPDATE				, •
									•		QA Closed:	Date	e:
Marili Ord						DISPOSITION			AGA	AINST DE	PARTMENT,	/PROCESS	•
Work Ord	er: _					Dawa wk		Cros	stube	1	Water Jet	Engineering	
Dom	\\_					Rework Scrap	-	1 .	<b>⊢</b>	ıll Fab	Pro	d. Eng. Coor.	Quality
Part i	NO				<del></del>	Use-as-is	1		~ <del></del>	ishing	4	re/Packaging	Other
NCR I	No					Work Order Update	1	1116111	~ <b>—</b>	oosite	1100,3101	Supplier	- J.
IVER	_					Work Order opdate	J		comp		1	20ppiici [	
Root	İ				Descri	ption of work order update	П	Initial	Action		Sign &		
Cause		Date	Step	Qty	,	or Non-conformance	Ch	nief Eng	Description		Date	Verification	QC Inspector
Doc/Data							Г		""				
Equip/Tooling							ì						
Operator			1										
Material	Ш												
Setup	Ш				1		1						
Other	Ш		<u> </u>										
Process	Ш												
Supplier	Ш												
Training	Ш												
Unapproved													
							AUI	T CATE	GORY				
· Landi					_	General	_	1			1	г	<b></b>
	-	Bending			<u> </u>	Bend	<u></u>	Grain		<u> </u>	Ovalized	<u> </u>	Pressure/Forced
	-	Centre No	ot Conce	ntric to	o/s	BOM/Route	_	Hardwa		-	Over/Under	<u> </u>	Temperature/Cure
	$\mathbf{H}$	Cracks			<u> </u>	Broken/Damaged		1	ion Incomplete	<u> </u>	Part Incorre	<u> </u>	Weld
	-	Crushed/	Crimped		<u> </u>	Burrs	$\vdash$	-1	ions Incomplete/Unclear		Part Lost/Mi	ssing	Wrong Stock Pulled
	$\vdash$	Cuffs			<u> </u>	Contamination	$\vdash$	Mainte			Part Moved		
	]	Heat Trea	it			Countersink	1	Mislabe	eled		Positioned V	Vrong	

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Other

Power Loss/Surge

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish Folio

# Work Order ID 98645

\*00045\*

March-19-13	10:53:27 AM			MAR	14:1°				Page 2
Item ID: Revision ID:	646.4001			Accept	*N900040	100*	Setup	Start	*NS1*
Item Name:	AS350 Cable	e Cutter						Stop	*NS2*
Start Date:	3/19/13	Start Qty: 1.00	*1*		Cust Item ID:				14(1)
Required Date: 4/02/13 Reference:		Req'd Qty: 1.00	*1*		Customer:				
Approvals:	Process P	lan:	Date:	Tooling:	Date:	-	Run	Start	*NR1*
	QC:		Date:	SPC (Y/N):	Date:			Stop	*NR2*
Sequence ID/ Work Center	ID	Operation Description		Set Up/ Run Hours	Tool ID Tool #	Plan A Code Q	•		Reject Insp. Number Stamp
130		Packaging		0.00		GAS	\	,	١٥
*130* Packaging		Memo		0.00		<b>ိ</b> ပ္ခ်င္တဲ့	<u>}                                    </u>		13,4-16
Packaging			pack for shipping as per			. <b>∂</b> -8€			
140		QC21- Final Inspection	· Work Order Release	0.00					
*14 <b>∩</b> *				0.00			MUS	13	04-14
Quality Control		Мето		0.00			<b>,</b> .		134-16

DC	A: Date:	
WORK ORDER MON CONFORMANCE / LIDRATE		•
NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE		`

											QA Closed:	Date	e:	
Work Orde	er:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	•	
Part No						Scrap Machining Small Fab Use-as-is Thermoforming Finishing				Crosstube Small Fab Finishing Composite	Prod. Eng. Coor. Quality Rec/Store/Packaging Other			
Root					Descri	ption of work order update	Τi	nitial	Ac	ction	Sign &			-
Cause	Da	te St	ep	Qty		or Non-conformance	Ch	ief Eng	Desc	cription	Date	Verification	QC Inspector	
Doc/Data														į
Equip/Tooling			- {	l		•								1
Operator		İ												
Material		1		- 1										
Setup	L	•		İ			1							
Other	$\square$													
Process		İ												
Supplier									:					
Training	$\dashv$		ļ											
Unapproved	<u> </u>		L	i			<u> </u>	T CATE	CORV					_
1	6				<del></del>	General	AUL	I CATE	GURY					_
Landi	ng Gear Bend	ling			Г	Bend		Grain			Ovalized	Г	Pressure/Forced	
	<b>⊢</b>	ਾਾਫ਼ re Not Co	ncent	tric to (	,  -	BOM/Route	$\vdash$	Hardwa	ire	<b> </b>	Over/Under	tolerance	Temperature/Cure	
	Crac		iiiCC()	anc to t	"" <b> </b>	Broken/Damaged		ł	ion Incomplete		Part Incorre		Weld	
	<b>⊢</b>	Crushed/Crimped Burrs						ions Incomplete	/Unclear	Part Lost/Mi		Wrong Stock Pulled		
į	Cuff		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u> </u>	Contamination		Mainte			Part Moved	ے ا		
	⊢	Treat				Countersink		Mislabe			Positioned V	Vrong		
	lacksquare	ection Str	ip in 1	Tube		Cut Too Short		Misrea			Power Loss/		Other	
	<b></b>	les in Ben	-			Drill Holes		Offset			_			_
	Torque Waves in Extrusion Drawing						Out of	Calibration						
Turning Sequence Finish						Out of	Sequence							
	Wave/Twist in Tube				Outside	Dimensions								

## **Picklist Print**

March-19-13 10:53:30 AM

Work Order ID: 98645

Parent Item:

\*98645\*

646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

**Start Date:** 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 12.10.23 NEW ISSUE DD VERE-ILM

Comments:	PP REV:A 12.10.	.23 NEW ISSUE		VERF:JLM					
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch		Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit Total Qty Date Status Qty Issued Issued
646.3301		Manufactured	No			- +	Each	0.0000	
*646_3301	* ^ L								** M125U83
Upper Cutter Assembly 646.3001	SW)	Manufactured	No				Each	0.0000	
*646-3001	*								** M126UF3 C
Lower Cutter Assembly 646.2910	SMP	M	No				<b>.</b>		7/1/2001
*646-2910	*	Manufactured	INO				Each	0.0000	***
Deflector	5W								** M126 V F 3
646.3810	_ <sub>[</sub> ,	Manufactured	No				Each	0.0000	
*646-381-0 Bracket	Ĵ SM								** 93300
646.3510		Manufactured	No				Each	0.0000	
*646 3510	*								** m 1250836
Strut 646.3511	2 M2	Manufactured	No			a.	Each	0.0000	
*646-3511	*								** M125083
Strut – 646.3512	-, 2h	Manufactured	No			1	Faab	0.0000	
*646_3512	*	Manufactured	NU				Each	0.0000	** M125083
Strut									777000
646.3513	ーンドン	Manufactured	No				Each	0.0000	1 S 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
*646_3513	======================================								** 11/25085

NCR:	Yes	/	No

DQA:\_\_\_

Date:

NCR: Y	es / No				WORK ORDER NON-C	CONFO	RMANCE / UF	PDATE	QA Closed:	Date:	·
Work Orde	r:				DISPOSITION			AGAINST DE		/PROCESS	4,
Part N					Rework Scrap		Skid-tube Crosstube Water Jet Machining Small Fab Prod. Eng. Coor.				Engineering Quality
NCR No.					Use-as-is Use-as-is Work Order Update	Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite					
Root Cause	Date	Step	Qty		ption of work order update or Non-conformance	Initial Chief E		ction cription	Sign & Date	Verification	QC Inspector
oc/Data quip/Tooling Operator Material				34							
etup Other Process upplier Faining										e general de la companya de la companya de la companya de la companya de la companya de la companya de la comp	
Inapproved			<u> </u>		F	AULT CA	TEGORY				
Landin	g Gear				General	7.021 07.					
	Bending Centre No		ntric to	o/s	Bend BOM/Route Broken/Damaged	Inspe	ware ection incomplete		Ovalized Over/Under Part Incorred	ot	Pressure/Forced Temperature/Cure Weld
	Crushed/ Cuffs Heat Trea	at			Burrs Contamination Countersink	Main	uctions Incomplete, ntenance abeled	/Unclear	Part Lost/Mi Part Moved Positioned V	Vrong	Wrong Stock Pulled
-	Inspectio Ripples in Torque V	n Bend			Cut Too Short Drill Holes Drawing	Misro Offse Out		L	Power Loss/	Surge	Other
ŀ	Turning S Wave/Tw	Sequence			Finish Folio	-	of Sequence ide Dimensions				

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Work Order ID: 98645

Parent Item:

NAS1149F0332P

646.4001

Parent Item Name: AS350 Cable Cutter

\*98645\*

\*646 4001\*

**Start Date:** 3/19/13

Required Date: 4/02/13

18 13-03-22

Start Qty: 1.00

Required Qty: 1.00

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$\sim$	יייו	,

<b>Location</b>	Loc Qty	Loc Code
GA	182	
122063	182	
ST294	269	
122063	269	
ST295	3	
123352	3	
st510	10000	
123900	10000	
	Each	6,289.000

Each

123900

MS21042L3

Nut

Purchased

Purchased

No

ST314

ST506

No

Location Loc Qty FP001 3 122141 3 GA 212 122452 212

268

117885 32 119017 55 119075 138 123265 43 5804

123900 1804 124291 4000 Loc Code

10,454.00

											DQA:		·
NCR: Y	'es	/ No				WORK ORDER NON-O	CON	<b>NFORM</b>	MANCE / UPDA	ATE			
											QA Closed:	Date	,
Vork Orde	òr.					DISPOSITION				AGAINST DE	PARTMENT/	PROCESS	·
Part No.				Rework Scrap Use-as-is	Skid-tube Crosstube  Machining Small Fab  Thermoforming Finishing		<b>)</b>	Water Jet Prod. Eng. Coor. Rec/Store/Packaging		Engineering Quality Other			
NCR No Work Order Up									Large Fab (	Composite		Supplier	
Root Cause		Date	Step	Qty		ption of work order update or Non-conformance	1	nitial ief Eng	Actior Descript		Sign & Date	Verification	QC Inspector
oc/Data quip/Tooling perator laterial etup ther rocess upplier raining													
napproved				<u>.                                    </u>		F	AUL	T CATE	GORY		<u> </u>		
Landi	ng G	Gear				General						1.4	
		Bending Centre No Cracks Crushed/G Cuffs Heat Trea Inspection Ripples in Torque W	Crimped t n Strip in Bend	Tube		Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing		Instruct Mainte Mislabe Misread Offset	on Incomplete ions Incomplete/Unc enance eled	clear	Ovalized Over/Under of the contract of the con	ssing /rong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
		Turning S	equence			Finish		Out of S	Sequence				

Outside Dimensions

Wave/Twist in Tube

Folio

Work Order ID: 98645

\*98645\*

Parent Item:

646.4001

\*646 4001\*

Location

ST139B

92768

Parent Item Name: AS350 Cable Cutter

**Start Date: 3/19/13** 

Required Date: 4/02/13

Start Qty: 1.00

\*\*

Required Qty: 1.00

646.3110

Manufactured

Manufactured

Manufactured

Manufactured

No

No

Each 10.0000

Loc Code

0.0000

0.0000

0.0000

196.0000

Loc Code

Loc Qty

10

10

Each

Each

Each

Each

Channel

646.3710 6 97410× SN

Doubler

646.3210

Support

646.3713

Gusset

MS24694-S51

Purchased

No

Screw

AN3-13A

Bolt

Purchased No

Location Loc Qty Loc Code ST303 196 116805 123741 195 Each 106.0000

13-03-22

Location Loc Oty ST351 56 104746 26 120910 30 ST512 50 123759 50

March-19-13 10:53:31 AM

Shop: Packet Print

Page 3

5.0

NCR:	Yes	/	No

DQA: \_\_\_\_\_Date: \_\_\_\_\_

NCR: Y	es / No					WORK ORDER NON-C	.Or	NFORI	VIANCE / UPI	DATE		QA Closed:	Date	:
Work Orde	r:					DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part No.  NCR No.						Scrap Machining Small F.  Use-as-is Thermoforming Finishi		Crosstube Small Fal Finishin Composite	g	Prod. Eng. Coor. Q		Engineering Quality Other		
Root Date Step Qty				'			nitial Action ief Eng Description			Sign & Date	Verification	QC Inspector		
Doc/Data	Date	эсер	Qty			1 Non-comormance		ici Liig	Desci	iption		Date	Vermedien	Qe mspector
equip/Tooling Operator Material		80. g. 8												
Setup					4.									
Other Process														
Supplier				<b>.</b> .										·
Fraining														
Jnapproved	7			~				÷						
	•	-				F	AUL	T CATE	GORY					
Landin	g Gear			The same of		General		_						_
	Bending					Bend		Grain				Ovalized	* * - *	Pressure/Forced
	Centre N	ot Conce	ntric to	o/s		BOM/Route	L	Hardwa	re			Over/Under	tolerance	Temperature/Cure
	Cracks					Broken/Damaged		Inspecti	on Incomplete			Part Incorred	it _	Weld
	Crushed/	'Crimped				Burrs		Instruct	ions Incomplete/l	Unclear		Part Lost/Mi	ssing	Wrong Stock Pulled
,	Cuffs					Contamination		Mainte	nance			Part Moved	•	
	Heat Trea	at				Countersink		Mislabe	led		_	Positioned V		
ļ	Inspection Strip in Tube Cut Too Short				$ldsymbol{le}}}}}}$	Misread	l			Power Loss/	Surge	Other		
	Ripples in Bend Drill Holes					Offset								
	Torque Waves in Extrusion Drawing			Ŀ	Out of Calibration									
	Turning Sequence Finish				Out of Sequence				5 # 3 mm / x					
	Wave/Twist in Tube Folio				Folio		Outside	Dimensions				-		

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### **Picklist Print**

March-19-13 10:53:31 AM

Work Order ID: 98645

\*98645\*

Parent Item:

AN3-4A

646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

**Start Date:** 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

Bolt

Purchased

No

Each 651.0000

<b>Location</b>		Loc Qty	Loc Code
ST350		318	
	120308	80	
	122814	38	
	124858	200	
ST512		333	
	120770	200	
	123900	133	

CR3213-5-3

Purchased

No

300.0000

Purchased

Location Loc Oty Loc Code ST329 300 123785 300 Each

123648

MS20470AD5-5.5

- No

813.0000

Location

123425

ST336

Loc Qty 813 813

Each

Each

Loc Code

0.0000

646.3711

Manufactured No

Clip 646.3712

Manufactured No Each 0.0000

Clip

NCR:	Yes	1	No
		,	

													•
						WORK ORDER NON A		NEODI	445ICE / 11E	DATE	DQA:	Date	
NCR: \	es / No					WORK ORDER NON-C	JUI	NFORI	VIAINCE / UP	DATE	QA Closed:	Date	· · · · · · · · · · · · · · · · · · ·
Marila Orala						DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	•
Work Orde	er:					Rework	1		Skid-tube	Crosstube	1	Water Jet	Engineering
Part N	lo					Scrap			Machining	Small Fab Finishing	-	d. Eng. Coor.	Quality Other
NCR N	No			•.		Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite			~ <b> </b>	i necysion	Supplier		
Root				Des	cri	otion of work order update		Initial	Ad	ction	Sign &		
Cause	Date	Step	Qty		C	or Non-conformance	Ch	nief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data	_												
quip/Tooling							ļ						
Operator	_												
Material	_												
Setup	_												
Other									•				
Process													
Supplier													
Training													
Unapproved		l	1					T CATE	L		1		
Landi	ng Gear					General		LI GATE	-		** *		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	Bending		٠.	w.		Bend	Г	Grain			Ovalized		Pressure/Forced
	Centre N	ot Conce				BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
	Cracks					Broken/Damaged	Г	Inspecti	on Incomplete		Part Incorred	ct 🗆	Weld
	Crushed/	Crimped				Burrs		Instruct	ions Incomplete	/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs					Contamination		Mainte	enance		Part Moved		_
	Heat Trea	at		3.34		Countersink		Mislabe	led		Besitioned Wrong		D. R. 15
	Inspection Strip in Tube					Cut Too Short		Misread	i		Power Loss/:	Surge	Other
	Ripples in Bend					Drill Holes		Offset					
	Torque V	Vaves in I	Extrusio			Drawing		Out of 0	Calibration				
	Turning Sequence					Finish		Out of 9	Sequence				1 × × 2
	Wave/Tv	vist in Tul	be			Folio		Outside	Dimensions			-	

Work Order ID: 98645

\*98645\*

Parent Item:

646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

**Start Date:** 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3811

Manufactured

Each 0.0000

AN3-6A

Purchased

No

No

Each

483.0000

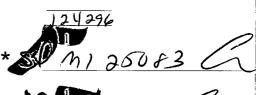
<u>n</u>	Loc Qty	Loc Code
	300	
124296	300	
	61	
117441	34	
121166	13	
122993	10	
123831	4	
	122	
122814	122	
	Each	119.0000
	124296 117441 121166 122993 123831	300 124296 300 61 117441 34 121166 13 122993 10 123831 4 122 122814 122 Each

MS24694-S55 Screw

Location	Loc Qty	Loc Code
ST303	119	
123758	1	
124296	118	
	Each	0.0000

Each

0.0000



646.3610

646.3714

Filler

Manufactured

Purchased

Manufactured

No

NCR:	Yes	/	No
NCN.	162	/	INO

NCR: Y	CR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE														
											(	QA Closed:	Dat	te:	
Work Orde	r:					DISPOSITION		AGAINST DEPARTMENT/PROCESS						•	
Part No.						Rework Scrap			Skid-tube Machining	Crosstube Small Fab	<b>—</b>		Water Jet d. Eng. Coor.		Engineering Quality
NCR No.				•	Use-as-is Work Order Update	4 <b>1</b>			Finishing Composite				Other		
Root				Des	cri	ption of work order update	l i	nitial	Ac	tion		Sign &			
Cause	Date	Step	Qty		C	or Non-conformance	Ch	ief Eng	Desc	cription		Date	Verification	n	QC Inspector
oc/Data				3.											
quip/Tooling		ļ		1			١								
perator		l		į											\$ *
/laterial								;							
etup [											1				
Other							•								
rocess															A James
upplier		1									Ì				
raining															
Inapproved															
				`		F	AUL	T CATE	GORY						
Landin	ng Gear			-\$		General						1000			
	Bendin	g				Bend		Grain				Ovalized			Pressure/Forced
	Centre	Not Conce	ntric to	o/s	Г	BOM/Route		Hardwa	re			Over/Under	tolerance		Temperature/Cure
	Cracks				Г	Broken/Damaged	П	Inspecti	on Incomplete			Part Incorred	it		Weld
Ī	Crushe	d/Crimped				Burrs		Instruct	ions Incomplete/	/Unclear		Part Lost/Mi	ssing		Wrong Stock Pulled
Ī	Cuffs					Contamination		Mainte	nance.			Part Moved			
Ī	Heat T	eat		- 1		Countersink		Mislabe	led			Positioned V	/rong		
Ţ	Inspection Strip in Tube				Г	Cut Too Short		Misread	I		П	Power Loss/	Surge		Other
						Drill Holes		Offset			_				
ļ						Drawing		Out of 0	Calibration		-	<u>-</u> .			
ļ	Turning Sequence Finish					Finish	Out of Sequence								
Ī	Wave/Twist in Tube					Folio	Г	Outside	Dimensions		-				

DQA: Date:

Work Order ID: 98645

\*98645\*

Parent Item:

646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

**Start Date:** 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-6

Purchased

No

Each 1,836.000

Location ST336

1.05433 124089

Loc Qty 1836 946 890

Loc Code

105433

646.3812

Manufactured No

Each

0.0000

AN3-3A

Purchased

No

Each

408.0000

Location ST350

Loc Qty 408 108 Loc Code

646.3813

Manufactured

124552

93252

123831

200 100 Each

10

10.0000

123831

Location

ST139d

Loc Qty 10

Loc Code

93252

M123426 90



NCR: Y	'es / 1	lo				WORK ORDER NON-C	100	NFORM	MANCE / UP	DATE	04.61			
			·			T			<u> </u>		QA Closed:		: ·	
Work Orde	er:					DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part No				<del>_</del>	Rework Skid-tube Crosstube Scrap Machining Small Fab Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite			Water Jet Engineering Prod. Eng. Coor. Quality Rec/Store/Packaging Other Supplier						
NCKI				****	_	work Order Update Large Fab Composite				- Jappiici L				
Root					ption of work order update		nitial	Act		Sign &	_			
Cause	<del></del>		(	or Non-conformance	Ch	ief Eng	Descr	iption	Date	Verification	QC Inspector			
loc/Data quip/Tooling									c			·		
perator														
/laterial		ŀ			• .									
etup	_						İ					*.		
other		ĺ		,										
rocess														
upplier				#										
raining														
Inapproved														
						F.	AUL	T CATE	GORY <sup>~</sup>					
Landir	ng Gear					General					-			
	Bend	ng			Г	Bend		Grain			Ovalized		Pressure/Forced	
	Centr	e Not Cor	centric	to O/S		BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure	
	Crack	s				Broken/Damaged		Inspecti	on Incomplete		Part Incorred	ct _	Weld	
	Crush	ed/Crimp	ed			Burrs		Instruct	ions Incomplete/L	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled	
	Cuffs					Contamination		Mainte	nance		Part Moved			
	Heat	Treat				Countersink		Mislabe	led į		Positioned V	Vrong	_	
	Inspe	ction Strip	in Tube	2		Cut Too Short		Misread	I		Power Loss/Surge Other		Other	
	Rippl	es in Bend	Ì			Drill Holes		Offset						
	Torqu	ie Waves	in Extrus	sion		Drawing		Out of 0	Calibration					
Turning Sequence				Finish		Out of S	equence							

Outside Dimensions

DQA:

Date:

Wave/Twist in Tube

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID: 98645

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

\*98645\*

\*646 4001\*

**Start Date: 3/19/13** 

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

Purchased

No

Each

625.0000

MS21047-3

Location Loc Qty ST316 625 123268 75 123301 50 123522 500 Each

Loc Code

1,100.000

Loc Code

CCR264SS3-02

Purchased

No

264553=02\*

Location Loc Qty ST327 1100 106578 100 600 124231 200 124259 200 Each

AN3-5A

Purchased

No

ST512

122416

1,096.000

13-03-20

\*AN3-5A\*7 Bolt

Location Loc Qty Loc Code FP001 32 122800 32 GA 120 117423 120 ST350 22 120187 22

922

122 800

											DQA.	. Date.	
NCR:	res /	No				WORK ORDER NON-O	OI	NFORM	MANCE / UPI	DATE	QA Closed	: Date:	v
						DISPOSITION		Γ		AGAINST DE			•
Work Orde	er:					DIST OSTITION				AGAINST DE			
Part N	No					Rework Scrap			Skid-tube Machining	Crosstube Small Fab	4	Water Jet od. Eng. Coor.	Engineering Quality
NCR No.				Contraction of the contraction o	Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite			<u> </u>	Rec/Sto	re/Packaging Supplier	Other		
Root						ption of work order update		Initial	Act	ion	Sign &	, , , , , , , ,	
Cause		ate	Step	Qty		or Non-conformance	Cr	nief Eng	Descr	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling		İ											
Operator		l											
Material		Ī	l		· . ,								
Setup					1 ′ .								
Other		1			*								
Process		l	į										
Supplier													and the second second
Training													
Unapproved								-					
							AUL	LT CATE	GORY			<del></del>	
Landi	ng Gear			**	·	General		7 .		_	7	_	1
	⊢	ding			` <u> </u>	Bend	$\vdash$	Grain		<u> </u>	Ovalized		Pressure/Forced
	$\vdash$		t Concer	itric to	o/s	BOM/Route	$\vdash$	Hardwa			Over/Under	, <del></del>	Temperature/Cure
Cracks				<u> </u>	Broken/Damaged	<u></u>	4	on Incomplete	<u> </u>	Part Incorre		Weld	
	$\vdash$		rimped		<u> </u>	Burrs	$\vdash$	1	ions Incomplete/L	Jnclear	Part Lost/M		Wrong Stock Pulled
	Cuf				<u> </u>	Contamination		Mainte			Part Moved		
	$oldsymbol{oldsymbol{ o}}$	at Treat			<u> </u>	Countersink	$\vdash$	Mislabe		<u></u>	Positioned Wrong		
	Inspection Strip in Tube				l	Cut Too Short	1	Misread			Power Loss,	/Surge	Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

Work Order ID: 98645

\*98645\*

Parent Item:

646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

**Start Date: 3/19/13** Start Qty: 1.00

Required Date: 4/02/13

646.3715

Manufactured

0.0000 Each

Required Qty: 1.00

MS27039-1-12

No

Each

Each

235.0000

**\$27039-1-**

Purchased

Location Loc Qty Mezz 235 100993 235 Loc Code

0.0000

Loc Code

Manufactured No

Gauge Bracket MS20426AD5-7

Purchased

Purchased

No

Each 865.0000

MS24694-S54

646.3716

No

Location ST334 101340 Loc Qty Loc Code 865 865 95.0000 Each

101340

13-03-20

Screw

Location Loc Qty ST303

95 20 75

NCR:	Yes	/	Nο

NCR: Y	es / No					<b>WORK ORDER NON-C</b>		<b>NFORM</b>	MANCE / UP	DATE			•
											QA Closed:	Date	:
Work Orde	r:	· · · · · · · · · · · · · · · · · · ·				DISPOSITION	•				EPARTMENT/		, []
Part N	o					Rework Scrap		1	Skid-tube Machining	Crosstube Small Fab	<b></b> }	Water Jet Eng. Coor.	Engineering Quality
NCR N	o			- <del> </del>		Use-as-is Work Order Update		Thern	noforming Large Fab	Finishing Composite	Rec/Stor	e/Packaging Supplier	Other
Root				Des	crip	otion of work order update	Ī	nitial	Act	tion	Sign &		
Cause	Date	Step	Qty .		o	or Non-conformance	Ch	ief Eng	Desci	ription	Date	Verification	QC Inspector
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Other				£:									
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upplier			,										
raining				ļ. <u>.</u>									
Inapproved				:									
						F.	AUL	T CATE	GORY			<u> </u>	2
Landin	g Gear					General					_		_
. [	Bending			1		Bend		Grain			Ovalized		Pressure/Forced
ſ	Centre 1	Not Conce	ntric to	o/s		BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure
Ī	Cracks					Broken/Damaged		Inspect	on Incomplete		Part incorrec	t,	Weld
	Crushed	I/Crimped		ar e		Burrs		Instruct	ions Incomplete/I	Unclear	Part Lost/Mis	ssing	Wrong Stock Pulled
Ī					Contamination		Mainte	nance		Part Moved			
Ī	Heat Tre	eat				Countersink	Г	Mislabe	led		Positioned W	/rong	
ľ	Inspection Strip in Tube					Cut Too Short		Misread	1		Power Loss/S	Surge	Other
	Ripples in Bend Drill Holes					Drill Holes		Offset		<u> </u>	_		
	Torque Waves in Extrusion Drawing					Drawing	Out of Calibration						
						Finish		Out of Sequence					
ļ.	Wave/Twist in Tube					Folio		Outside	Dimensions				

DQA: Date:

Work Order ID: 98645

646,4001

\*98645\* \*646 4001\*

Parent Item Name: AS350 Cable Cutter

**Start Date:** 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-21

Parent Item:

Purchased

No

Each 387.0000

ST306 115935 ST506 124326

Location

Loc Qty 87 87 300 300 Each

115935

MS27039-1-20

MS27039-1-19

Purchased

Purchased

No

No

Location st510 124326

Loc Qty 500 500

Each

Loc Code

500.0000

Loc Code

1,102.000

\*\*

Location Loc Qty ST306 102 122814 2 123522 100 ST506 1000

124326

Loc Code

124326

646.3717

Manufactured

1000 Each

10.0000

Loc Code

13-03-20

Doubler

Location Loc Qty ST139A 10 93171 10

93171

												DQA:	Date:	
NCR:	'es	/ No					WORK ORDER NON-C	100	NFORM	MANCE / UPDATE		_	1	,
												QA Closed:	Date:	
Vork Orde	r.						DISPOSITION			AGAINST	DEP	ARTMENT/	PROCESS	,
VOIR OTAL	-						Rework	ì		Skid-tube Crosstube	$\neg$		Water Jet	Engineering
Part N	10.						Scrap			Machining Small Fab		Prod	l. Eng. Coor.	Quality
	. •		· · · · · · · · · · · · · · · · · · ·				Use-as-is		1	noforming Finishing		Rec/Store	e/Packaging	Other
NCR I	۱o.				•		Work Order Update			Large Fab Composite			Supplier	
		γ			· · · · ·								· · · · · · · · · · · · · · · · · · ·	
Root			_		Des	•	otion of work order update		nitial	Action		Sign &	1	
Cause	4	Date	Step	Qty			r Non-conformance	Ch	ief Eng	Description	$\dashv$	Date	Verification	QC Inspector
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Landi							General		ı	r	_		· ·	<b>,</b>
		Bending					Bend	L	Grain		_	Ovalized	i.	Pressure/Forced
	-	Centre No	t Concer	ntric to	O/S		BOM/Route	_	Hardwa		_	Over/Under t		Temperature/Cure
	-	Cracks					Broken/Damaged	<u> </u>	•	on incomplete	-	Part Incorrect	<del>-</del>	Weld
	_	Crushed/C	rimped				Burrs	<u> </u>	ł	ions Incomplete/Unclear	_	Part Lost/Mis	sing	Wrong Stock Pulled
		Cuffs	_				Contamination	$\vdash$	Mainte	•		Part Moved		
		Heat Treat		Tuba *			Countersink	<b> </b>	Mislabe		_	Positioned W Power Loss/S		Other
		Inspection Ripples in		rube			Cut Too Short Drill Holes	$\vdash$	Misread Offset	' [	'	- OWEL LUSS/3	uige [_	Other
		Torque W		vtrucio	n		Drawing	-	4	Calibration	-			
		Turning Se			•	-	Finish	H	ł	Sequence	-			
		Wave/Twi	-				Folio	H	1	Dimensions	-			

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Required Date: 4/02/13

Required Qty: 1.00

### **Picklist Print**

March-19-13 10:53:31 AM

Work Order ID: 98645

\*98645\*

Parent Item:

646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

646.3718

Manufactured

Manufactured

Purchased No Location ST139B

93289

124326

Loc Qty 20

20

140

Each

Each

359.0000 Each

0.0000

20.0000

Loc Code

**Start Date:** 3/19/13

Start Qty: 1.00

Screw

MS27039-1-10

646.3719

Location	Loc Qty	Loc Code
GA	100	
120449	100	
ST305	101	
122815	1	
124859	100	
ST308	18	
123522	18	
ST506	140	

124326

										DQA:	Dat	e:	
NCR: Y	es / N	o			WORK ORDER NON-C	O	VFORM	MANCE / UPDA	ATE	OA Classel	Dot.	_	•
							•			QA Closed:	Dat	e:	
Work Orde	ar.				DISPOSITION				AGAINST DE	PARTMENT/	PROCESS		•
WOIR Old					Rework	ı		Skid-tube	Crosstube		Water Jet	$\neg$	Engineering
Part N	lo.				Scrap			Machining	Small Fab	Prod	d. Eng. Coor.	$\dashv$	Quality
					Use-as-is			noforming	Finishing		e/Packaging	$\exists$	Other
NCR N	lo				Work Order Update			· —	Composite		Supplier		
Root		<u> </u>	1	Descri	ption of work order update		Initial	Actio	n	Sign &			
Cause	Dat	e Step	Qty		or Non-conformance	Ch	ief Eng	Descrip	otion	Date	Verification	<u> </u>	QC Inspector
Doc/Data			1	1.4									
Equip/Tooling													
Operator		ļ		1									
Material												- 1	
Setup							:						
Other												-	
Process				<u> </u>								}	* A # 11.1
Supplier			1								ĺ		
Training	$\square$												
Unapproved			,	<u> </u>							1		
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Landii	ng Gear				General	_	۱			ا د د		一.	
	Bend	•			Bend	<u> </u>	Grain		<b>—</b>	Ovalized			Pressure/Forced
	<b>—</b>	e Not Conce	entric to	O/S  -	BOM/Route	<u> </u>	Hardwa		<del></del>	Over/Under	<b>-</b>		Temperature/Cure
!	Crack			<u> </u>	Broken/Damaged	$\vdash$	1 '	on incomplete	<u> </u>	Part Incorred	<b>-</b>	<b>—</b>	Weld
		ed/Crimped	1	<u> </u>	Burrs	-	4	ions Incomplete/Un	<b>-</b>	Part Lost/Mi	ssing[	'ك	Wrong Stock Pulled
	Cuffs			<u> </u>	Contamination	$\vdash$	Mainte		<b></b>	Part Moved	/rong		
	Heat		<b>-</b> 1 :		Countersink	$\vdash$	Mislabe		<b>.</b>	Positioned W		$\neg$	Other
	Inspe	ction Strip i	n lube	1	Cut Too Short		Misread	1		Power Loss/S	ourge [		Julei -

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

## **Picklist Print**

March-19-13 10:53:31 AM

Work Order ID: 98645

\*98645\*

Parent Item:

646.4001

\*646 4001\*

Parent Item Name: AS350 Cable Cutter

**Start Date:** 3/19/13

Required Date: 4/02/13

Start Qty: 1.00,

Required Qty: 1.00

Purchased No Each 792.0000

			<b>Location</b>	Loc Qty	Loc Code	lacksquare
			ST351	192		
~m()			110865	42		
٠١٠٠			123525	150		123525
			ST512	600		
			115457	100		
			123352	200		
			123759	300		
600.0990	Purchased	No		Each	0.0000	
*600 0990* \( \lefta \) Magnabond (6398-Part-A. (One 4 oz can)						** \$ M120051
600.0991	Purchased	No		Each	0.0000	
*600 0991* Magnabond 6398 Part B (One 4 oz carr)						** D 13,0061 2
600.1012	Purchased	No		Each	0.0000	
*600-10-1-2* Sealant (One 6 oz Semkit)					0.0000	** \$ 126087 CC
600.0129	Purchased	No		Each	0.0000	8-
(*600.1013)  (*600.1013)  (*600.1013)	STOR					** 5 m/2603/
600.1013	Purchased	No		Each	0.0000	55
*600.1013* SM						** mia6154 (43/4)16

NCR:	Yes	/	No

NCR: \	⁄es	/ No					WORK ORDER NON-C	:01	NFORI	MANCE / UPDATE		DQA: QA Closed:	Dat		
Nork Orde							DISPOSITION			A	GAINST DE	PARTMENT/	PROCESS		
Part N	- . ۱٥۰				* - ·		Rework Scrap Use-as-is Work Order Update		Thern	Machining Sm noforming Fi	osstube nall Fab inishing nposite		Water Jet I. Eng. Coor. e/Packaging Supplier		Engineering Quality Other
									<u> </u>					_	
Root					Des		otion of work order update		Initial	Action		Sign &	1		
Cause		Date	Step	Qty	<u> </u>	C	or Non-conformance	Cr	nief Eng	Description	1	Date	Verification	1	QC Inspector
oc/Data	$\dashv$				[										
quip/Tooling	Н				Ì			1		·					, e
perator													<u> </u>		
Material	$\vdash$														
etup	Н													İ	
Other	H												1		
rocess	Н				2000										
upplier	Н			}	1								1		
raining	$\vdash$				J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.										1
Inapproved				<u> </u>	1 4		F		T CATE	GORY					
Landi	na G	Gear		۶.			General		II CAIL				1		
Landi		Bending				Г	Bend	Г	Grain			Ovalized	[	t	Pressure/Forced
	-	Centre No	nt Concer		→ O/S	$\vdash$	BOM/Route	一	Hardwa	ire		Over/Under	tolerance	_	Temperature/Cure
	$\boldsymbol{\vdash}$	Cracks			- 1		Broken/Damaged	一	4	ion Incomplete		Part Incorrec	· · · · · · · · · · · · · · · · · · ·		Weld
	$\vdash$	Crushed/0	Crimped			$\vdash$	Burrs		4	ions Incomplete/Unclea	ır 📙	Part Lost/Mis	·		Wrong Stock Pulled
!	-	Cuffs	<b>pcu</b>			<u> </u>	Contamination		Mainte		<b> </b>	Part Moved			
	H	Heat Trea	t			H	Countersink	$\vdash$	Mislabe			Positioned W	rong		
	H	Inspection		Tube	·	Г	Cut Too Short		Misread			Power Loss/S	_ r	$\Box$	Other
	Н	Ripples in	-		· .	Ė	Drill Holes		Offset			•	· .		
	$\vdash$	Torque W		Extrusio	n		Drawing		Out of 0	Calibration			:		
	$\vdash$	Turning S				Г	Finish		4	Sequence					· · · · ·
	Н	Mayo/Tw	-				Folio		1	Dimensions					

## **Picklist Print**

March-19-13 10:53:31 AM

Work Order ID: 98645

\*98645\*

Parent Item:

646.4001

\*646 4001\*

Location

Parent Item Name: AS350 Cable Cutter

**Start Date: 3/19/13** Start Qty: 1.00

Required Date: 4/02/13

Required Qty: 1.00

646.3910

Manufactured

Each 90.0000

Manufactured

ST139d 93238 Loc Qty Loc Code 90 90 Each 29.0000

93238

Manufactured No

Location ST139d

29 29 Each

Loc Qty

91.0000

Loc Code

Loc Code

646.3912

646.3911

Manufactured No Location ST139d 93423

93160

Loc Qty 91 91 Each

30.0000

93423

13-03-20

646:3913

Location ST139d

Loc Qty 30 30 Loc Code

93160

									DQA:	Date:	
NCR: Y	es / No				WORK ORDER NON-O	CONFO	RMANCE / UP	DATE	OA Classel	Data	,
·····							-		QA Closed:	Date:	*
Work Orde	r:				DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	•
Part N	0				Rework Scrap Use-as-is Work Order Update	The	Skid-tube  Machining  rmoforming  Large Fab	Crosstube Small Fab Finishing Composite	<b>⊣</b>	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root	1		I	Descr	I iption of work order update	Initial	Ac	ction	Sign &		
Cause	Date	Step	Qty	1	or Non-conformance	Chief Er	i	cription	Date	Verification	QC Inspector
Doc/Data		31.5P	~-,				8				•
quip/Tooling		}		}			•			!	
Operator				<u> </u>							
Material										!	
Setup				1		1				į	
Other					•						
rocess							•				
Supplier		Ì			i					1	
Fraining											
Jnapproved									1		
						AULT CA	TEGORY		· · · · · · · · · · · · · · · · · · ·	<del>-                                    </del>	
Landir	ng Gear			r—	General				7	1	7 .
	Bending			<u> </u> _	Bend	<b>⊢</b> ⊣	n · ·	<u> </u>	Ovalized	ļ <u> </u>	Pressure/Forced
	Centre No	ot Conce	ntric to	O/S	BOM/Route	Hard		<u> </u>	Over/Under	· —	Temperature/Cure
	Cracks				Broken/Damaged	<b>—</b> '	ection Incomplete	_	Part Incorred	i —	Weld
	Crushed/	Crimped		··	Burrs	<b>—</b>	uctions Incomplete,	/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	Cuffs			ļ <u>.</u>	Contamination	$\vdash$	ntenance	<u> </u>	Part Moved	J	
	Heat Trea			<u> </u>	Countersink	$\vdash$	beled	<u> </u>	Positioned V		1
	Inspectio		Tube	 	Cut Too Short	Misre			Power Loss/	Surge	Other
]	Ripples ir			<u> </u>	Drill Holes	Offse					·
	Torque W			n L	Drawing	$\vdash$	of Calibration			•	
	Turning S	equence		1	Finish	Out o	of Sequence			1	

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Folio

## **Picklist Print**

March-19-13 10:53:31 AM

Work Order ID: 98645

Parent Item:

MS27039-1-16

646.4001

Parent Item Name: AS350 Cable Cutter

\*98645\*

\*646 4001\*

**Start Date:** 3/19/13

Start Qty: 1.00

\*\*

151.0000

Loc Code

Required Date: 4/02/13 Required Qty: 1.00

AN3-12A

Purchased

Purchased

No

No

Location Loc Qty GA 6 122407 6 ST351 45 114536 123352 44 ST512 100 123759 100

Each 106.0000

Loc Code

Each

Screw

Location Loc Qty ST306 106 121444 6 122993 100

122993

/es /	No				WORK ORDER NON-C	ON	NFORM	ANCE / UP	DATE		 	•
										QA Closed:	Date	2:
ar.					DISPOSITION	ı			AGAINST DE	PARTMENT/	PROCESS	•
No					Rework Scrap Use-as-is Work Order Update		f Therm	Machining of orming of the second sec	Crosstube Small Fab Finishing Composite	i		Engineering Quality Other
			3.		· <u>-</u>	<u> </u>					i <del>-</del>	
Da	ite	Step	Qty		•		1			Sign & Date	Verification	QC Inspector
								-				
ng Goor						AUL	CATE	JORT				<del>_</del> .
Bend Cent Crac Crus Cuff: Heat Insp	re Not ks hed/Cri s t Treat ection S	imped Strip in Bend	Tube		Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Hardwa Inspecti Instruct Mainte Mislabe Misreac Offset	on Incomplete ions Incomplete/i nance led		Part Incorrec Part Lost/Mis Part Moved Positioned W	rong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
	ng Gear Benc Cent Crac Crus Cuff Heat	Date  Date  Date  Date  Date  Cracks Crushed/Cr Cuffs Heat Treat Inspection S Ripples in B	Date Step  Date Step  Date Step  Date Step  Date Step  Date Step  Date Step  Date Step  Date Step  Date Step  Date Step  Date Step	Date Step Qty  Date S	Date Step Qty  Date Step Qty  Description  Date Step Qty  Control Da	Prince Pr	Part   Disposition	DISPOSITION  Rework Scrap Use-as-is Work Order Update Or Non-conformance Chief Eng  Date Step Oty Or Non-conformance Chief Eng  Bending Bending Bend Grain Hardwa Cracks Broken/Damaged Inspection Strip in Tube Countersink Mislabe Ripples in Bend Cut Too Short Misraed Offset Cut Too Short Misraed Cut Too Sho	DISPOSITION  Rework Scrap Use-as-is Work Order Update Initial Accomplete Step Oty Or Non-conformance Chief Eng Description of work order update Initial Accomplete Step Oty Or Non-conformance Chief Eng Description of work order update Initial Accomplete Initial	DISPOSITION  Rework   Scrap   Wachining   Small Fab   Large Fab   Composite    Date   Step   Qty   Description of work order update   Initial   Action   Chief Eng   Description    Date   Step   Qty   Or Non-conformance   Chief Eng   Description    Date   Step   Qty   Or Non-conformance   Chief Eng   Description    FAULT CATEGORY  Rework   Wachining   Small Fab   Composite    Large Fab   Composite    Action   Description    Description   Description    FAULT CATEGORY  Rework   Skid-tube   Composite   Composite    Initial   Action   Description    Action   Description    Description   Description    FAULT CATEGORY  Rework   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Fault Category   Fault Category    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Small Fab   Composite    Remork   Machining   Machining   Composite    Remork   Machining   Machining   Machining   Composite    Remork   Machining   Machining   Composite    Remork   Machining   Machining   Composite    Remork   Machining   Machining   Composite    Remork   Machining   Machining   Composite    Remork   Machining   Machining   Composite    Remork   Machining   Machining   Composite    Remork   Machining   Machining   Composite    Remork   Machining   Machining   Composite    Remork   Machining   Machining   Composite    Remork   M	DISPOSITION  Rework   Scrap   Work Order Update   Work Order update   Step   Oty   Or Non-conformance   Chief Eng   Description   Description   Date   Step   Oty   Or Non-conformance   Chief Eng   Description   Date   Description   Description   Date   Description   Description   Date   Description   Description   Description   Description   Date   Description   D	DISPOSITION   Rework   Skid-tube   Crosstube   Prod. Eng. Coor.

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish Folio

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							•
•	ENGINEERING CHANGE	NOTICE NO	03079			SHEE	T 1 JF 1
APICAL	DWG NO. 646.4000	REV: A	PREPARED N.C	AP	DATE: 03	8/21/11	EFFECT ON DWG
INDUSTRIES, INC.	DWG TITLE: AS350 C	ABLE CUTTER	RS KIT	ranger of the control	1.0		
	APPROVED BY	MFG Sa	J. Bah	- ac Us	surelff.	EFF <sup>1</sup>	VEXT ORDER
TRANSACTION CODES (TC), A-ADD C-CREATE R-REVISE D-DELETE	REASON: CREATED FIX	•				<i>?</i>	
SHEET 1,	U,yere eri,	98645_MCJ	2 36 3 14 2 8 14 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 5 5	52 600.0990 mora 51 601.2826 BIL 52 646.3814 VIPP 49 601.2910 SCR 48 601.1345 SCR 47 646.3719 DIUJ 44 646.3718 CIS 45 646.3718 CIS 45 646.3718 CIS 41 601.1948 SCR 42 601.1956 SCR 41 601.2829 SCR 41 601.2829 SCR 41 601.2829 SCR 42 601.2831 RIVY 39 646.3715 STR 39 646.3715 STR 30 601.2824 BIL 31 600.0795 NUIT 33 600.2577 RIVS 34 600.0795 NUIT 33 601.2564 RIVS 35 601.2824 BIL 30 646.3813 STR 31 601.2822 BIL 30 646.3810 SCR 31 601.2823 SCR 32 646.3813 STR 33 601.2565 RIVS 32 646.3813 STR 33 601.2565 RIVS 32 646.3813 STR 33 601.2565 RIVS 32 646.3813 STR 34 600.0795 NUIT 35 601.2824 BIL 36 601.2825 BIL 37 646.3816 STR 38 600.0795 NUIT 38 601.2825 BIL 38 646.3818 SCR 39 646.3818 SCR 30 646.3818 SCR	ER BRACKET EV NSE EV NSE EV NSE BLER BLER EV NSE EV	## ## ## ## ## ## ## ## ## ## ## ## ##

REF	REF	17	REF	65	647.5701	GPS MOUNT KIT	77\	
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		1.5		63	601.2911	SCREV	MS24694553	
	1 2	7	2	62	601.2637	SCREV	MS27039-1-16	
	1 5	$\overline{}$	2	61	6012763	ROLY	MC3-12A	
	Ti	7		60	646.3913	CHIM		
	14	$\cap$	4	59	646.3912	SHIM		
-			П	58	646.3911	KIHZ		
	4		4	57	646.3910	SHIM		
	T 5	7	5	56	600,1013	PRIMER		
	18 FT	7	8 FT	55	600.0129	VHB TAPE		
•	TI	71	$\sqcap$	54	600.1012	SEALANT	PR-1425 CLASS 1	
,4804	.4823	A002	A301	FIND #	PART 0	DESCRIPTION	MAT'S.	SPEC.

MS28942L3 MS2HFTXXXY

DUCUMENTS EFFECTED

X MDL ☑ INSTALL INSTRUC ☑ ICA

CHANGE CATEGORY

BOM MAJOR MINOR

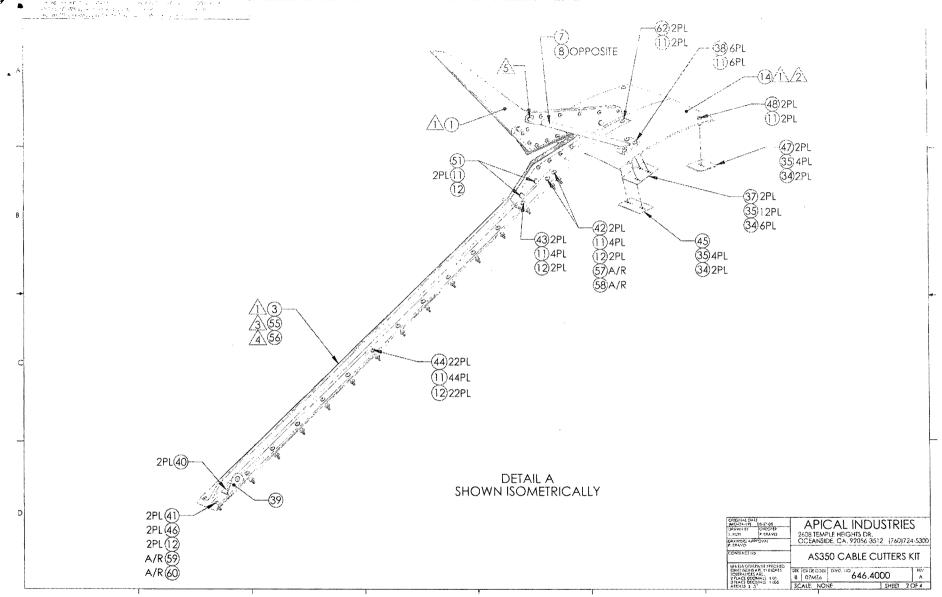
DER REVIEW REQUIRED

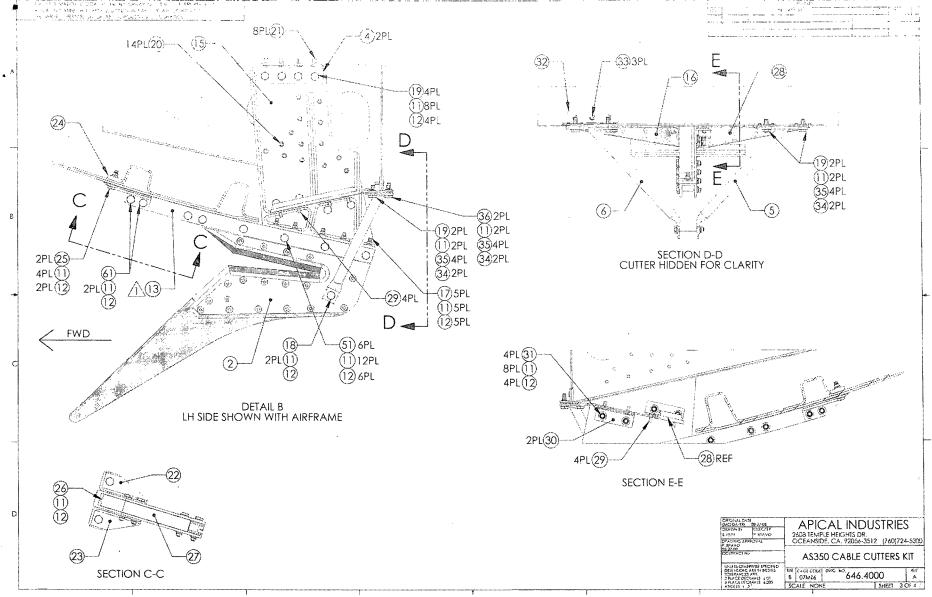
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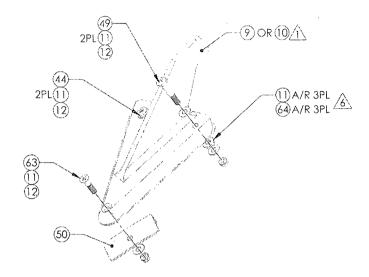
DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

65 <i>A</i>	647.5701	REF	GPS MOUNT KIT	$\triangle$	·
F/N T	C PART NUMBER	,4001 QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCU	MENTS EFFECTED:		CHANGE  MDL   INSTALL INSTRUC   ICA   BDM   MAJOR		VIEW REQUIRED ES Ø NO

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NOTES:	Land Can Complete Econo		:_[.`.'
NOICS.	Oa d Oanad		
AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES	03046, 03079	www.www.   or 55 €00.0129 768 TAPE   A	
/2√ INSTALL F/N 14 WITH F/N 52 & 53	1	1 54 500 0991 MADA SON COMPANY	
A Committee of the Comm		52 600.0990   MACHOSTO 6378 PAPA	
3M VHB ADHESIVETAPE .025" THICK X .50" WIDE VENDOR: MCMASTER-CARR P/N 75935A651		2 SU 545.3814 WIPER BRACLET 2 49 601.2910 SCREW MASSESPENSE	
3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE		2 48 601.1365 SCREW (45979)+ 115	
VENDOR: R.S. HUGHES P/N 021200-24216		2 47 546.3719 DOUBLER 2 46 646.3718 CUSTOM WASHER	
ZS REUSE FASTENERS FROM F/N 1		1 45 646,5717   DOUBLER     2 22 44 601,1948   SCREW   M32**039**1.5   2 43 601.1952   SCREW   M32**039**1.5	2
USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT		2 43 601.1952 SCREW MSCROD+152 4 42 601.1956 SCREW MSCROD+152	
•		2 41 601,2829 SCREW MS3:489-354	4
		2 40 601,2831 RIVET   MSZ0426ADS   1 39 646,3716   GAUGE BRACKET	
		6 38 601.1955 SCREW MSTRUMBER 2 37 646.3715 STRUT DOUBLER	2
		2 36 601,2824 601 440-54 36 35 601,2277 RIVEI C092455342	,—
		18 34 600.0795 NUTPLATE 1/521047/5	
C DETAIL A		1 32 646,3813 STRUT BRACKET	
DETAIL A		4 31 501.2822 80.1 ANS 34 2 30 646.3812 GUSSET BRACKET	
		8 29 60) 2564 RIVET MISCHARDADS 1 28 646.3714 GUSSET	-4
		3 27 646.3610 FILLER	
DETAIL C		2 25 601,2825 BOUT AND 6A	
	The second secon	1 24 646.3811 RADIUS BLOCK 1 23 646.3712 CLIP	
1		1 22 646.3711 CUP     8 21 601.2832 RIVET	
$\mathcal{M}$	And the second s	14 20 601,2020 RIVET CR3213-5-3	
A Secretary of the secr		1 18 601.2827 BOLT ANS-15A	
46.4002—		5 17 601.2912 SCREW MS24624551 1 16 646.3713 GUSSET	+-
		1 15 646.3210 SUPPORT 1 14 646.3710 DOUBLER	<del></del>
46.4001		1   13   646,3110   CHANNEL     6   63   12   601,1624   LOCKNUT   MS2102432	
**************************************		16 134 11 601,1607 WASHER NUCLEARING	
\DETAIL B		1   10   646.3411   RH WIPER DEFLECTOR   1   9   646.3410   LH WIPER DEFLECTOR	
		1 8 646.3513 STRUT 1 7 646.3512 STRUT	
	6 54 601,3151 WASHER MAJEMANE	) 6 646.351\ STRUT 1 5 646.351\ STRUT	
	2 63 601.2911 SCREW AS24674353 2 62 601.2637 SCREW MS270391-14	2 4 646.3810 BRACKET	
Internal Control of Co	2 61 601,2763 SOUT ANS 12A	1 2 646,3001 LOWER CUTTER ASSY	
<u>                                     </u>	1 60 646.3913 SHIM 4 59 646.3912 SHIM	1   646.3301 UPPER CUTTER ASSY   646.4002   ASSES WIPES DEFICITION RIT	_
	1 58 646.3911 SHIM	646,4001 ASSV2 CABIS CUTTERS KIT 436 991 FIND # PART # DESCRIPTION MATE	SF
	A	QTY PARTS LIST	
		NEXT ASSY (S) AND A FT (8-27-88 FRANCE FF P. BRAND 2608 TEMPLE HEIGHTS DR.	21KIE
		OCEANSIDE, CA. 92056-3512	! (760)72
		A\$350 CABLE CUT	TERS K
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			SHEET 1







DETAIL C LH SHOWN EXPLODED RH OPPOSITE

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1. Approving National Aviation 2. 3. Form Tracking Number: Page 1 of 3 Authority/Country: AUTHORIZED RELEASE CERTIFICATE MG13-078 FAA/UNITED STATES FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: 5. Work Order/Contract/Invoice Number: Apical Industries, Inc. Shipper # 12443 2608 Temple Heights Drive P.O. # AS350-CCK/PO19331 PO1886NM Oceanside, CA 92056 6. Item: 7. Description: 8. Part Number: Eligibility: \* **Ouantity:** 11. Serial/Batch Number: 12. Status/Work: 1. **Upper Cutter Assy** 646.3301 N/A 16 119640-3 New 2. Lower Cutter Assy 646.3001 20 119737-1 3. Deflector 646,2910 17 119572-1 4. Doubler 646,3710 2 113434-1 Strut Doubler 646.3715 114916-7 6. Gusset 646,3714 113434-3 Doubler 646.3715 113434-4 Shim 646.3911 113080-5 2Gusset 646.3713 113434-2 10. Bracket 646.3810 113012-4 11. Support 646,3210 114263-3 12. **Gusset Bracket** 646,3812 113579-1 13. Strut Bracket 646.3813 112165-3 14. Shim 646,3910 26 114916-5 15. Shim 646.3912 26 114916-6 Channel 646,3110 118257-8 **EXPORT AIRWORTHINESS APPROVAL** 13. Remarks: A. These parts listed in Block 7. are subcomponents of a PMA Article B. Bilaterial Agreement - None C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada. D. Last item entered..... 14. Certifies the items identified above were manufactured in conformity to: Approved design data and are in condition for safe operation Non-approved design data specified in Block 13. 15. Authorized Signature 16. Approved/Authorization No.: **DMIR 606259-NM** 17. Name (Typed or Printed): 18. Date (m/d/y): Lisa Mansfield March 18, 2013 User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different that the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the

\*Installer must cross-check eligibility with applicable technical data.

NSN: 0052-00-012-9005

user/installer before the aircraft may be flown

FAA Form 8130-3(6-01)

1. Approving National Aviation 3. Form Tracking Number: Page 2 of 3 Authority/Country: **AUTHORIZED RELEASE CERTIFICATE** MG13-078 FAA/UNITED STATES FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: 5. Work Order/Contract/Invoice Number: Apical Industries, Inc. Shipper # 12443 2608 Temple Heights Drive P.O. # AS350-CCK/DC [ 9 3 3 ] PO1886NM Oceanside, CA 92056 6. Item: 7. Description: 8. Part Number: Eligibility: \* **Ouantity:** Serial/Batch Number: 12. Status/Work: 17. Strut 646,3512 N/A 12 111971-3 New 18. Doubler 646,3719 24 117341-6 **-19**2 #646:3510 20. Strut 646.3511 117341-3 21. Clip 646,3711 13 117341-1 22. Clip 646,3712 13 117341-4 23. **Custom Washer** 646,3718 27 117341-5 Gauge Bracket 646,3716 15 117953-1 25. Filler 646.3610 17 115914-2 Shim 646.3913 17 117953-2 27. Radius Block 646,3811 20 117651-1 28. Strut 646.3513 35 11971-1, 115105-1, 115741-3 29. Bolt 601.2825 192 107245-1, 119183-2 30. Bolt 601.2827 69 106824-1, 114455-1 31. Bolt 601.2763 206 41764-3, 46468-1 32. Screw 601.2830 149 41769-8, 107245-8 13. Remarks: EXPORT AIRWORTHINESS APPROVAL A. These parts listed in Block 7. are subcomponents of a PMA Article B. Bilaterial Agreement - None C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada. D. Last item entered..... 14. Certifies the items identified above were manufactured in conformity to: Approved design data and are in condition for safe operation Non-approved design data specified in Block 13. 15. Authorized Signature: 16. Approved/Authorization No.: **DMIR 606259-NM** 17. Name (Typed or Printed): 18. Date (m/d/y): Lisa Mansfield March 18, 2013 User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different that the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the

\*Installer must cross-check eligibility with applicable technical data.

NSN: 0052-00-012-9005

user/installer before the aircraft may be flown.

FAA Form 8130-3(6-01)

1. Approving National Aviation Authority/Country:	3. Form Tracking Number: Page 1 of 3						
FAA/UNITED STATES	MG13-078						
	111111 VIIII 0130 3,		NESS APPROVAL	IAG			
4. Organization Name and Address:					5 Work Order/C	ontract/Invoice Nur	mhon
Apical Industries, Inc.	5. Work Order/Contract/Invoice Number: Shipper # 12443 P.O. # AS350-CCK/PO 1933 /						
2608 Temple Heights Drive Oceanside, CA 92056							
					, ,		
6. Item: 7. Description:	8. Part Number:	9. Eligibilit		: 11. Serial	Batch Number:	12. Status/W	/ork:
1. Upper Cutter Assy 2. Lower Cutter Assy	646.3301 646.3001	N/A	16	119640-3		New	
3. Deflector	646.2910		20	119737-1 119572-1			
4. Doubler	646.3710		2	113434-1			1
5. Strut Doubler	646.3715		2	114916-7		,	
6. Gusset	646.3714		2	113434-3	3		
Doubler 8. Shim	646.3715		2	113434-4			
9. Gusset	646.3911 2646.3713		2	113080-5			٠
. 10. Bracket	646.3810		6	113012-4			
11. Support	646.3210		4	114263-3			
12. Gusset Bracket	646.3812		. 8	113579-1			
13. Strut Bracket	646.3813		5	112165-3			
14. Shim 15. Shim	646.3910		26	114916-5			
16. Channel	646.3912 646.3110		26 7	114916-6			
13. Remarks: EXPORT AIRWORTHINES				118257-8			<del></del>
	k 7. are subcomponents of a 1	PMA Article					
B. Bilaterial Agreement - N							
	o Dart Aerospace Ltd. in Hav	vkesburv. ON. Cana	da.				
D. Last item entered	T	••••••	***************************************	•••••			•
14. Certifies the items identified above were m	nanufactured in conformity to	:					
Approved design data and are in cond							
☐ Non-approved design data specified in	Plank 12						
	Diock 13.						
15. Authorized Signature:	16. Approved/Authoriza	tion No.:					
	P P P P P P P P P P P P P P P P P P P		ξ <sub>μ</sub> .				
	DAKED COCOGO NA						
15 N (F) 1 D 1 1 N	DMIR 606259-NM						
17. Name (Typed or Printed):	18. Date (m/d/y):						
Lisa Mansfield	March 18, 2013						
		User/Installer R					
It is important to understand that the existence of this	s document alone does not autom			onent/assembly.		<u> </u>	<del></del>
Where the user/installer performs work in accordanc user/installer ensures that his/her airworthiness accep	e with the national regulations of	an airworthiness auth	ority different that the airwor	thiness authority of the	country enscified in	Ploak 1 it is assential t	that the
apertingianet engares that mother arrantinuese arre-	ots parts/components/assemblies	from the airworthinger	authority of the country spec	ified in Block 1	country specifica in	Diver 1, it is essential t	that the

\*Installer must cross-check eligibility with applicable technical data.

NSN: 0052-00-012-9005

user/installer before the aircraft may be flown. FAA Form 8130-3(6-01)

## Work Order ID 98645

\*98645\*

March-19-13 10:53:27 AM

\*N900040100\* Accept Setup Start Item ID: 646.4001 **Revision ID:** Item Name: AS350 Cable Cutter **Cust Item ID:** Start Qty: 1.00 **Start Date:** 3/19/13 Req'd Qty: 1.00 **Customer:** Required Date: 4/02/13 Reference: Start Run Date: 13 03 19 Tooling: Date: Process Plan: ML 5 Approvals: Stop SPC (Y/N): Date: QC: Date: Sequence ID/ Accept Reject Reject Insp. Tool # Plan Tool ID **Operation** Set Up/ Qty Qty Number Stamp Code **Description Run Hours** Work Center ID **Revision Nbr** Draw Nbr 646.4000 Α 0.00 100 DOCUMENT CONTROL \*100\* 0.00 DC Memo Photocopy bluefile & type labels per PPP 646.4001 Document Control 0.00 Pick Kit 110 \*110\* 0.00 Packaging Memo Packaging 0.00 QC4-100% Inspect kits for completeness 120

QC

Memo

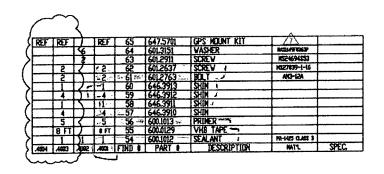
0.00

**Quality Control** 

03079 SHEET 1 JF 1 ENGINEERING CHANGE NOTICE NO. EFFECT ON DWG **APICAL** PREPARED N.CAP DATE: 03/21/11 REV: A DWG NO. 646.4000 ☐ INC. ☒ UNINC. DWG TITLE: AS350 CABLE CUTTERS KIT INDUSTRIES, INC. QC NEXT ORDER Davithah APPROVED BY TRANSACTION CODES (TC) REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT C-CREATE D-DELETE A-ADD R-REVISE

SHEET 1, BOM, IS:

# REFERENCE ONLY



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-	++-	<del> }</del>	-1.5	· (52 %)	600.0990		<b>X</b>	······································
\ <del></del>	18	<del> </del>	8	51	6012826	BOLT	AKG-IIA	
	<u> </u>	12	T-1	50	646.3814	VIPER BRACKET		
	<del>                                     </del>	) <u>2</u>		_49 _	601,2910	SCREV	MS27839-1-18	***************************************
7-2-	<del>                                     </del>	1	5	48	601.1365	SCREV 1	IG27039-1-19	
( <del>  }</del>	1	17	2	47	646.3719	THE FR. L		
<b>`</b>	2	1	Ž	46	646.3718	- CUSTON - VASHER		
-1	┪	1	1 7-	45	646.3717	DOUBLER ?		
<b>`</b>	22	15	22	- 44	6011948	SCREV	MS27039-1-19	
_	2	7	2	43	601.1952	SCREY	NS27039-1-26	
	14	n –	1	42	6011956	SCREV	NS27039-1-21	
_	2	Κ	2	41	601.2829	SCREV	MS24694SS4	
	1 Z	<b>k</b>	×2	-40~	601.2831	RIVET	MS20426ABT5-7	
	17	1)	1-1-	-39-	646.3716	GAUGE BRACKET *		
-	6	1	6	39	601.1953	SCREV	HS27829-1-12	
<del>-</del> 2 k	1	U -	T	37	6463715	STRUT DOUBLER.		
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36	1	17	136	35	601.2277	RIVET	0357433-3-65	
18		K	18	34	600.0795	NUTPLATE	HS21947-3	
3	1	17	¥ 3	33	601.2565	RIVET~~	NS29476A85-7	
T	1	1) ;	***************************************	32	646.3913	STRUT BRACKET		
14	1	7	4	31	601.2822	BOLT -	AC-3A	
12	Т	Ŋ	. 2	29 29	646.3812	GUSSET-BRACKET		
, la	1	<u>K</u>	18	29	601.2564	RIVET .	MS28476A55-6	
<b>'</b>   T	1	K	1	58	646.3714	GUSSET		
-		1	11	27	646.3610	FILLER		
<b>&gt;</b>	ΤÌ	1	i	26	601.2830	SCREV 1	M24694235	
	2	<	12	25	601.2825	BOLT -	AIG-GA	
	17	1	45	24	646.3811	RADIUS BLOCK !		
-	11	<del>/                                    </del>		23	646.3712	Tap \	1	
1		1	11	22	646.3711	CLIP !		
8	1	2	1-B	21	6015835	RIVET	NS29474485-55	:
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10	1	1	\10 ↔	19	6012823	BOLT	MG-4A	· .
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Γī	T	<b>V</b>		14	646.3710	DOUBLER :		
	Π	<u>ע</u>		13	646.3110	CHANNEL		
8	1 55	16	63 €	· 15	601.1624	LOCKNUT	#\$29048L3	
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	ΙÍ		-1-0	- 6	646.3511	STRUT L_		
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<b></b>	<del>                                     </del>		χÍ	-	646,4001	ACOSO CABLE CUTTERS KIT		
4004	A\$23	A622	.488	FIND #	PART 6	DESCRIPTION	MATE	SPEC.

DOCUMENTS EFFECTED:

X MDL

CHANGE CATEGORY ☑ INSTALL INSTRUC ☑ ICA ☑ BOM ☐ MAJOR ☑ MINOR

DER REVIEW REQUIRED ☐ YES XI NO

